

SEQUENCE LISTING

<110> Hall, Roderick L Poll, Christopher T. Newton, Benjamin B. Taylor, William J.A.

<120> A Method for Accelerating the Ra $\not t$ e of Mucociliary Clearance

<130> 98,736-A

<140>

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<150> 09/218,913

<151> 1998-12-22

<160> 71

<170> Microsoft Word 97

<210> 1

<211> 179

<212> PRT

<213> Homo sapien

<400> 1

Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val
1 5 10 15

Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr 20 25 30

Asp Gly Ser Cys Gln Len Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser 35 40 45

Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val

Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp 65 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser 8/5 90 95

Ser Asp Met Phe/Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr

Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg

Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn 130 135 140

Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln 145 150 155 160

Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Leu Ala Gly
165 170 175

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Ala Val Ser

<210> 2
<211> 197
<212> PRT
<213> Homo sapien
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<220> <221> sig\_peptide <222> 1..18

Leu Ala Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser 20 25 30

Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn 35 40 45

Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly 50 55 60

Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala 65 70 75 80

Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala 85 90 95

Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp
100 105 110

His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala 115 120 125

Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val 130 135 140

Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn 145 150 155 160

Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg 165 170 175

Gln Gln Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Leu 180 185 190

Ala Gly Ala Val Ser 195

<210> 3 <211> 153 <212> PRT <213> Homo sapien

<400> 3
Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala
1 5 10 15

Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu 20 25 30

Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys 35 40 45

Glu Glu Cys Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr Gly 50 60

Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser Ala 65 70 75 80

Pro Arg Arg Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn Tyr 85 90 95

Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser  $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$ 

Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe 115 120 125

Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu 130 135 140

Ala Cys Met Leu Arg Cys Phe Arg Gln 145 150

<210> 4

<211> 58

<212> PRT

<213> Homo sapien

<400> 4

Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu 20 25 30

Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys 35 40 45

Glu Glu Cys Leu Lys Lys Cys Ala Thr Val

<210> 5

<211> 51

<212> PRT

<213> Homo sapien

<400> 5

Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg 1 5 10 15

Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly 20 25 30

Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu 35 40 45

Lys Lys Cys 50 <210> 6 <211> 58 <212> PRT <213> Homo sapien <400> 6 Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln <210> 7 <211> 51 <212> PRT <213> Homo sapien <400> 7 Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys 50 <210> 8 <211> 92 <212> PRT <213> Homo sapien Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp 70 75

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<210> 9
<211> 708
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> 679..708
<223> /note= "n at positions 622, 679, 707 is any nucleic acid"
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ggccgggtcg tttctcgcct ggctgggatc gctgctcctc tctggggtcc tggcggccga
                                                                       60
ccgagaacgc agcatccacg acttctgcct ggtgtcgaag gtggtgggca gatgccgggc
                                                                      120
ctccatgcct aggtggtggt acaatgtcac tgacggatcc tgccagctgt ttgtgtatgg
                                                                      180
gggctgtgac ggaaacagca ataattacct gaccaaggag gagtgcctca agaaatgtgc
                                                                      240
cactgtcaca gagaatgcca cgggtgacct ggccaccagc aggaatgcag cggattcctc
                                                                      300
tgtcccaagt gctcccagaa ggcaggattc tgaagaccac tccagcgata tgttcaacta
                                                                      360
tgaagaatac tgcaccgcca acgcagtcac tgggccttgc cgtgcatcct tcccacgctg
                                                                      420
gtactttgac gtggagagga actcctgcaa taacttcatc tatggaggct gccggggcaa
                                                                      480
taagaacagc taccgctctg aggaggcctg catgctccgc tgcttccgcc agcaggagaa
                                                                      540
tecteceetg eccettgget caaaggtggt ggttetggee ggggetgttt egtgatggtg
                                                                      600
ttgatccttt tcctggggag cntccatggt cttactgatt ccgggtggca aggaggaacc
                                                                      660
aggagcgtgc cctgcgganc gtctggagct tcggagatga caagggnt
                                                                      708
<210> 10
<211> 235
<212> PRT
<213> Homo sapien
<220>
<221> peptide
<222> 1..235
<223> /note= "Xaa at positions 201, 226, and 233 are nonsence or stop codons"
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Ala Gly Ser Phe Leu Ala Trp Leu Gly Ser Leu Leu Ser Gly Val
Leu Ala Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser
Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn
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Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser

Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly

50 55 60

Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala 65 70 75 80

Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala
85 90 95

Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp
100 105 110

His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala 115 120 125

Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val 130 135 140

Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn 145 150 155 160

Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg 165 170 175

Gln Gln Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Leu 180 185 190

Ala Gly Ala Val Ser Xaa Trp Cys Xaa Ser Phe Ser Trp Gly Ala Ser 195 200 205

Met Val Leu Leu Ile Pro Gly Gly Lys Glu Glu Pro Gly Ala Cys Pro 210 215 220

Ala Xaa Arg Leu Glu Leu Arg Arg Xaa Gln Gly 225 230 235

<210> 11

<211> 170

<212> PRT

<213> Homo sapien

<220>

<221> peptide

<222> 1..170

<223> /note= "Xaa at positions 8, 17, 21-26, 40, 42, 45-47, 52, 64, 103, 112, 114, 116-121, 135, 137, 140-142, 147, and 159 is any amino acid residue"

<400> 11

Ala Asp Arg Glu Arg Ser Ile Xaa Asp Phe Cys Leu Val Ser Lys Val 1 5 10 15

Xaa Gly Xaa Cys Xaa Xaa Xaa Xaa Xaa Trp Trp Tyr Asn Val Thr 20 25 30

Asp Gly Ser Cys Gln Leu Phe Xaa Tyr Xaa Gly Cys Xaa Xaa Xaa Ser 35 40 45

Asn Asn Tyr Xaa Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Xaa 50 60

Thr 65	Glu	Asn	Ala	Thr	Gly 70	Asp	Leu	Ala	Thr	Ser 75	Arg	Asn	Ala	Ala	Asp 80		
Ser	Ser	Val	Pro	Ser 85	Ala	Pro	Arg	Arg	Gln 90	Asp	Ser	Glu	Asp	His 95	Ser		
Ser .	Asp	Met	Phe 100	Asn	Tyr	Xaa	Glu	Tyr 105	Cys	Thr	Ala	Asn	Ala 110	Val	Xaa		
Gly	Xaa	Cys 115	Xaa	Xaa	Xaa	Xaa	Xaa 120	Xaa	Trp	Tyr	Phe	Asp 125	Val	Glu	Arg		
Asn	Ser 130	Cys	Asn	Asn	Phe	Xaa 135	Tyr	Xaa	Gly	Cys	Xaa 140	Xaa	Xaa	Lys	Asn		
Ser 145	Tyr	Xaa	Ser	Glu	Glu 150	Ala	Cys	Met	Leu	Arg 155	Cys	Phe	Arg	Xaa	Gln 160		
Glu .	Asn	Pro	Pro	Leu 165	Pro	Leu	Gly	Ser	Lys 170	Val	Val	Val	Leu	Ala 175	Gly		
Ala	Val	Ser															
<211 <212	<210> 12 <211> 393 <212> DNA <213> Homo sapien																
<221 <222	<220> <221> misc_feature <222> 390391 <223> /note= "residue 361 is any nucleic acid"																
<221 <222	<220> <221> misc_feature <222> 390391 <223> /note= "residue 367 is any nucleic acid"																
<220 <221 <222 <223	> mi > 38	343	85		ie 38	34 is	s any	/ nuc	cleid	e aci	id"						
<220 <221 <222 <223	> mi > 36	73	868		ie 39	90 is	s any	y nuc	cleid	c aci	id"						
<400 ggcc			ttct	cgcc	et gg	jctgg	gato	c gct	gete	ctc	tcts	gggt	cc 1	tggcd	cggccg	60	c
accg	agaa	icg c	cagca	atcca	ıc ga	cttc	ctgcc	c tgg	gtgto	gaa	ggtg	gtgg	igc a	agatt	ccggg	120	J
cctc	catg	jcc t	aggt	ggtg	g ta	ıcaat	gtca	a ctg	gacgo	gatc	ctg	cago	tg 1	tttgt	gtatg	180	)
9999	ctgt	ga c	ggaa	acaç	jc aa	taat	taco	tga	accaa	ıgga	ggag	gtgcc	etc a	aagaa	aatgtg	240	)
ccac	tgto	cac a	ıgaga	atgo	c ac	gggt	gaco	tgg	gccac	cag	cago	gaatg	gca q	gcgga	attcct	300	)

ctgtcccaag tgctcccaga aggcaggatt cttgaagacc acttcagcga tatgtttcaa

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393
ntattgnaag aataattgca ccgncaacgn att
<210> 13
<211> 130
<212> PRT
<213> Homo sapien
<220>
<221> Region
<222> 1..18
<223> /label= signal peptide
<220>
<221> Peptide
<222> 111..130
<223> /note= "Xaa at positions 111, 120, 122, 128, and 130 represents a
nonsense or stop codon"
<400> 13
Pro Gly Arg Phe Ser Pro Gly Trp Asp Arg Cys Ser Ser Leu Gly Ser
Trp Pro Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser
Lys Val Val Gly Arg Glu Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn
Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly
Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala
                    70
Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala
                                    90
Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Xaa Arg
            100
                                105
Pro Leu Gln Arg Tyr Val Ser Xaa Ile Xaa Arg Ile Ile Ala Pro Xaa
Thr Xaa
    130
<210> 14
<211> 511
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> 425..510
<223> /note= "n at positions 425, 482, and 510 is any nucleic acid"
gcaataatta cctgaccaag gaggagtgcc tcaagaaatg tgccactgtc acagagaatg
                                                                       60
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ccacggg	tga d	cctgg	gccac	cc ag	gcago	gaato	g cag	gegga	attc	ctct	gtco	cca a	agtgo	ctccca		120	
gaaggca	gga t	tctg	gaaga	ac ca	actco	cagco	g ata	atgtt	caa	ctat	gaag	gaa t	acto	gcaccg		180	
ccaacgc	agt o	cacto	gggco	ct to	gccgt	gcat	cct	tccc	cacg	ctg	gtact	tt g	gacgt	ggaga		240	
ggaactc	ctg d	caata	actt	c at	ctat	ggag	g gct	gccg	9999	caat	aaga	aac a	agcta	accgct		300	
ctgagga	ggc (	ctgca	atgct	c cg	gctgo	cttco	gco	cagca	agga	gaat	ccto	ccc c	ctgc	cccttg		360	
gctcaaa	ggt g	ggtgg	gttct	g go	ccggg	gcts	ttt	cgt	gatg	gtgt	tgat	cc t	tttt	cctggg		420	
gagcntc	cat o	ggtct	tact	g at	tccg	gggtg	g gca	aagga	agga	acca	aggag	gcg t	gcc	ctgcgg		480	
ancgtct	gga g	gctto	ggag	ga to	gacaa	agggr	ıt									511	
<210> 1 <211> 1 <212> P <213> H	69 RT	sapie	en														
<220> <221> p <222> 1 <223> / stop co	169 note	7	aa at	t po	sitio	ons	2, 2	3, 1	32,	160,	and	. 167	rep	oresent	a	nonsense	or
<400> 1		_										_	•				
Gln Xaa 1	Leu	Pro	Asp 5	GIn	GIY	GIY	Val	Pro 10	Gin	Glu	Met	Cys	His 15	Cys			
His Arg	Glu	Cys 20	His	Gly	Xaa	Pro	Gly 25	His	Gln	Gln	Glu	Cys 30	Ser	Gly			
Phe Leu	Cys 35	Pro	Lys	Ser	Pro	Arg 40	Arg	Gln	Asp	Ser	Glu 45	Asp	His	Ser			
Ser Asp 50	Met	Phe	Asn	Tyr	Glu 55	Glu	Tyr	Cys	Thr	Ala 60	Asn	Ala	Val	Thr			
Gly Pro 65	Cys	Arg	Ala	Ser 70	Phe	Pro	Arg	Trp	Tyr 75	Phe	Asp	Val	Glu	Arg 80			
Asn Ser	Cys	Asn	Asn 85	Phe	Ile	Tyr	Gly	Gly 90	Cys	Arg	Gly	Asn	Lys 95	Asn			
Ser Tyr	Arg	Ser 100	Glu	Glu	Ala	Cys	Met 105	Leu	Arg	Cys	Phe	Arg 110	Gln	Gln			
Glu Asn	Pro 115	Pro	Leu	Pro	Leu	Gly 120	Ser	Lys	Val	Val	Val 125	Leu	Ala	Gly			
Ala Val	Ser	Xaa	Trp	Cys	Xaa 135	Ser	Phe	Ser	Trp	Gly 140	Ala	Ser	Met	Val			
Leu Leu 145	Ile	Pro	Gly	Gly 150	Lys	Glu	Glu	Pro	Gly 155	Ala	Cys	Pro	Ala	Xaa 160			
Arg Leu	Glu	Leu	Arg 165	Arg	Xaa	Gln	Gly										

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<210> 16
<211> 428
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> 1..430
<223> /note= "n at positions 3, 11, 12, 17, 51 and 429 represent any nucleic
acid"
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                                                                      60
cegagaacgc agcatecacg acttetgeet ggtgtegaag gtggtgggea gatgeeggge
                                                                      120
ctccatgcct aggtggtggt acaatgtcac tgacggatcc tgccagctgt ttgtgtatgg
                                                                      180
gggctgtgac ggaaacagca ataattacct gaccaaggag gagtgcctca agaaatgtgc
                                                                      240
cactgtcaca gagaatgcca cgggtgacct ggccaccagc aggaatgcag cggattcctc
                                                                      300
tgtcccaagt gctcccagaa ggcaggattc ttgaagacca cttcagcgat atgttcaact
                                                                      360
atgaagaata ctggcaccgc caacgcattc actgggcctg cgtgcatcct tcccacgctg
                                                                      420
gtactttgnc g
                                                                      431
<210> 17
<211> 424
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> 1..424
<223> /note= "n at positions 6, 310 and 408 represent any nucleic acid"
<400> 17
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                                                                       60
ttctgcctgg tgtcgaaggt ggtgggcaga tgccgggcct ccatgcctag gtggtggtac
                                                                      120
aatgtcactg acggatcctg ccagctgttt gtgtatgggg gctgtgacgg aaacaqcaat
                                                                      180
aattacctga ccaaggagga gtgcctcaag aaatgtgcca ctgtcacaga gaatgccacg
                                                                      240
ggtgacctgg ccaccagcag gaatgcagcg gattcctctg tcccaagtgc tcccagaagg
                                                                      300
caggattetn gaagaccact ccagcgatat gttcaactat gaagaatact gcaccgccaa
                                                                      360
egeagteact gggeettgeg tggaateett teecaegetg gnaatttnga egttgagaag
                                                                      420
gaac
                                                                      424
<210> 18
<211> 57
<212> PRT
<213> Unknown
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<220>
<221>
<222>
<223> /note= "Tissue factor pathway inhibitor precursor 1"
<400> 18
His Ser Phe Cys Ala Phe Lys Ala Asp Asp Gly Pro Cys Lys Ala Ile
Met Lys Arg Phe Phe Phe Asn Ile Phe Thr Arg Gln Cys Glu Glu Phe
                                25
Ile Tyr Gly Gly Cys Glu Gly Asn Gln Asn Arg Phe Glu Ser Leu Glu
Glu Cys Lys Lys Met Cys Thr Arg Asp
<210> 19
<211> 57
<212> PRT
<213> Unknown
<220>
<223> /note= "Tissue factor pathway inhibitor precursor 1"
<400> 19
Pro Asp Phe Cys Phe Leu Glu Glu Asp Pro Gly Ile Cys Arg Gly Tyr
Ile Thr Arg Tyr Phe Tyr Asn Asn Gln Thr Lys Gln Cys Glu Arg Phe
Lys Tyr Gly Gly Cys Leu Gly Asn Met Asn Asn Phe Glu Thr Leu Glu
Glu Cys Lys Asn Ile Cys Glu Asp Gly
    50
<210> 20
<211> 57
<212> PRT
<213> Unknown
<223> /note= "Tissue factor pathway inhibitor precursor"
<400> 20
Pro Ser Trp Cys Leu Thr Pro Ala Asp Arg Gly Leu Cys Arg Ala Asn
Glu Asn Arg Phe Tyr Tyr Asn Ser Val Ile Gly Lys Cys Arg Pro Phe
Lys Tyr Ser Gly Cys Gly Gly Asn Glu Asn Asn Phe Thr Ser Lys Gln
                            40
Glu Cys Leu Arg Ala Cys Lys Lys Gly
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50

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<210> 21
<211> 57
<212> PRT
<213> Unknown
<223> /note= "Tissue factor pathway inhibitor precursor 2"
Ala Glu Ile Cys Leu Leu Pro Leu Asp Tyr Gly Pro Cys Arg Ala Leu
Leu Leu Arg Tyr Tyr Tyr Arg Tyr Arg Thr Gln Ser Cys Arg Gln Phe
                                25
Leu Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Tyr Thr Trp Glu
Ala Cys Asp Asp Ala Cys Trp Arg Ile
   50
<210> 22
<211> 57
<212> PRT
<213> Unknown
<220>
<223> /note= "Tissue factor pathway inhibitor precursor 2"
Pro Ser Phe Cys Tyr Ser Pro Lys Asp Glu Gly Leu Cys Ser Ala Asn
Val Thr Arg Tyr Tyr Phe Asn Pro Arg Tyr Arg Thr Cys Asp Ala Phe
Thr Tyr Thr Gly Cys Gly Asn Asn Asn Asn Phe Val Ser Arg Glu
Asp Ser Lys Arg Ala Cys Ala Lys Ala
<210> 23
<211> 57
<212> PRT
<213> Unknown
<220>
<223> /note= "Amyloid Precursor Protein homologue"
<400> 23
Lys Ala Val Cys Ser Gln Glu Ala Met Thr Gly Pro Cys Arg Ala Val
Met Pro Arg Thr Thr Phe Asp Leu Ser Lys Gly Lys Cys Val Arg Phe
                                25
Ile Thr Gly Gly Cys Gly Gly Asn Arg Asn Asn Phe Glu Ser Glu Asp
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gai Milli ing paggara sa

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Tyr Cys Met Ala Val Cys Lys Ala Met
<210> 24
<211> 58
<212> PRT
<213> Unknown
<220>
<223> /note= "Aprotinin"
<400> 24
Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Lys Ala
 \hbox{Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr } \\
Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala
Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
<210> 25
<211> 51
<212> PRT
<213> Unknown
<223> /note= "Inter alpha-trypsin inhibitior precursor"
<400> 25
Cys Gln Leu Gly Tyr Ser Ala Gly Pro Cys Met Gly Met Thr Ser Arg
                                     10
Tyr Phe Tyr Asn Gly Thr Ser Met Ala Cys Glu Thr Phe Gln Tyr Gly
                                 25
Gly Cys Met Gly Asn Gly Asn Asn Phe Val Thr Glu Lys Glu Cys Leu
Gln Thr Cys
    50
<210> 26
<211> 57
<212> PRT
<213> Unknown
<223> /note= "Inter alpha-trypsin inhibitor precursor"
<400> 26
Val Ala Ala Cys Asn Leu Pro Ile Val Arg Gly Pro Cys Arg Ala Phe
Ile Gln Leu Trp Ala Phe Asp Ala Val Lys Gly Lys Cys Val Leu Phe
            20
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Pro Tyr Gly Gly Cys Gln Gly Asn Gly Asn Lys Phe Tyr Ser Glu Lys
        35
                            40
Glu Cys Arg Glu Tyr Cys Gly Val Pro
   50
<210> 27
<211> 57
<212> PRT
<213> Unknown
<220>
<223> /note= "Amyloid precursor protein"
Glu Val Cys Cys Ser Glu Gln Ala Glu Thr Gly Pro Cys Arg Ala Met
                                    10
Ile Ser Arg Trp Tyr Phe Asp Val Thr Glu Gly Lys Cys Ala Pro Phe
Phe Tyr Gly Gly Cys Gly Gly Asn Arg Asn Asn Phe Asp Thr Glu Glu
                            40
Tyr Cys Met Ala Val Cys Gly Ser Ala
<210> 28
<211> 51
<212> PRT
<213> Unknown
<223> /note= "Collagen alpha-3 (VI) precursor"
<400> 28
Cys Lys Leu Pro Lys Asp Glu Gly Thr Cys Arg Asp Phe Ile Leu Lys
Trp Tyr Tyr Asp Pro Asn Thr Lys Ser Cys Ala Arg Phe Trp Tyr Gly
Gly Cys Gly Gly Asn Glu Asn Lys Phe Gly Ser Gln Lys Glu Cys Glu
                            40
Lys Val Cys
   50
<210> 29
<211> 57
<212> PRT
<213> Unknown
<220>
<223> /note= "HKI-B9"
Pro Asn Val Cys Ala Phe Pro Met Glu Lys Gly Pro Cys Gln Thr Tyr
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Ala	Tyr	Gly 35	Gly	Cys	Gly	Gly	Asn 40	Ser	Asn	Asn	Phe	Leu 45	Arg	Lys	Glu	
Lys	Cys 50	Glu	Lys	Phe	Cys	Lys 55	Phe	Thr								
<210 <211 <212 <213	> 4 > D	6 NA	revi	siae												
<400 gcca			gata	aaag	at a	tgaaq	gaata	ct	gcac	cgcc	aacg	gca				46
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<400 9999			actg	ctgg	cg ga	aagca	agcgg	g ag	cat							35
<210 <211 <212 <213	.> 2 !> D	06 NA	sapi	en												
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cgtg	cat	cct	tccc	acgc	tg g	tact	ttgad	gt	ggag	agga	acto	cctgo	caa	taact	tcat	c 120
tato	gag	gct	gccg	gggc	aa ta	aaga	acago	ta	ccgc	tctg	agga	aggco	ctg	catgo	ctcc	gc 180
tgct	tcc	gcc	agca	gtga	gg a	tccc	C									206
<210 <211 <212 <213	> 2 ?> D	8 NA	sapi	en												
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<210	)> 3	5														

Met Thr Arg Trp Phe Phe Asn Phe Glu Thr Gly Glu Cys Glu Leu Phe

<211> 36 <212> DNA <213> Homo	sapien	
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Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr 115 120 125

Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg 130 135 140

Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly 145 150 155 160

Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met 165 170 175

Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Leu Pro Leu Gly Ser 180 185 190

Lys Val Val Val Leu Ala Gly Leu Phe Val Met Val Leu Ile Leu Phe 195 200 205

Leu Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala Arg Arg Asn Gln 210 215 220

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Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val 50 60

Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser 85 90 95

Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr
100 105 110

Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg 115 120 125 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn 130 135 140

Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln 145 150 155 160

Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly 165 170 175

Leu Phe Val Met Val Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr 180 185 190

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Ser Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg 35 40 45

Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln 50 55 60

Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr 65 70 75 80

Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr 85 90 95

Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser 100 105 110

Ala Pro Arg Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn 115 120 125

Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala 130 135 140

Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn 145 150 155 160

Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu

165 170 175

Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Leu 180 185 190

Pro Leu Gly Ser Lys Val Val Leu Ala Gly Leu Phe Val Met Val 195 200 205

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Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val 50 55 60

Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp 65 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser 85 90 95

Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg 115 120 125

Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn 130 135 140

Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln 145 150 155 160

Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Leu Ala Gly
165 170 175

Leu Phe Val Met Val Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr 180 185 190

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Leu Gly Ser Leu Leu Leu Ser Gly Val Leu Ala Ala Asp Arg Glu Arg 20 25 30

Ser Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg 35 40 45

Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln 50 60

Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr 65 70 75 80

Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser 100 105 110

Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn 115 120 125

Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala 130 135 140

Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn 145 150 155 160

Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu 165 170 175

Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Leu 180 185 190

Pro Leu Gly Ser Lys Val Val Leu Ala Gly Leu Phe Val Met Val 195 200 205

Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala 210 215 220

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Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp 65 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser 85 90 95

Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr 100 105 110

Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg 115 120 125

Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn 130 \$135\$

Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln 145 150 155 160

Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys 165 170

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Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr 20 25 30

Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser 35 40 45

Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val 50 60

Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp 65 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser 85 90 95

Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr 100 105 110

Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg 115 120 125

Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn 130 135 140

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Arg Ala Ser Phe
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Pro Tyr Val Asp Gly Ser Gln Phe Tyr Gly
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Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser 35 40 45

Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val 50 55 60

Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp 65 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser 85 90 95

Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr 100 105 110

Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg 115 120 125

Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn 130 135 140

Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln 145 150 155 160

Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Leu Ala Gly 165 170 175

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Trp Ser Ser Gly Asp Asp Lys Glu Gln Leu Val Lys Asn Thr Tyr Val

Leu 225

29